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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/711,930	11/15/2000	Hwa-Chun Lin	EM/LIN/6195	8542

7590 12/05/2003  
Bacon & Thomas PLLC  
625 Slaters Lane  
4th Floor  
Alexandria, VA 22314-1176

EXAMINER

AFSHAR, KAMRAN

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 12/05/2003

2

Please find below and/or attached an Office communication concerning this application or proceeding.

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# Office Action Summary

Application No.

09/711,930

Applicant(s)

LIN ET AL.

Examiner

Kamran Afshar, 703-305-7373

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

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**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagarajan (U.S. Patent 5,884,174).

With respect to claim 1, Nagarajan discloses an admission control method used in cluster-based / organized cells (See e.g. Co. 3, Lines 39-42) micro / picocellular wireless networks for determining whether a new mobile user is admitted to enter a cell upon arriving the cell (See e.g. Co. 3, Lines 43-45), wherein a cluster has a plurality of cells (See e.g. Co. 3, Lines 39-42) and a cell has a plurality of channels (See e.g. Title, Abstract, Co. 1, Lines 22-26), providing a cluster level threshold and cell level threshold; admitting the mobile user to enter the cell if the number of occupied channels in the cluster is less than the cluster level threshold and the number of occupied channels in the cell is less than the cell level threshold; otherwise, refusing the mobile user to enter the cell (See e.g. Co. 2, Lines 10-30, Co. 4, Line 61 – Co. 5, Line 3, 101- 117 of Fig. 1).

Regarding claim 2, Nagarajan discloses the cluster level threshold is equal to or less than the total number of channels in a cluster, and the cell level threshold is equal to or less than the number of channels in a cell (See e.g. Co. 5, Lines 19-50, 201, 203, 223, 225, 227, 229 of Fig. 2).

Regarding claim 3, Nagarajan discloses the cell level threshold is at least one and the cluster level threshold is at least the number of cells in the cluster (See e.g. Co. 5, Lines 19-50, 201, 203, 223, 225, 227, 229 of Fig. 2).

Regarding claim 4, Nagarajan discloses the cluster level threshold and the cell level threshold are selected in such a manner that combinations of the cluster and cell level thresholds that can guarantee a predetermined call hand-off dropping probability under any load condition are first found, and then, a

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particular combination of cluster and cell level thresholds that results in a maximum throughput of the network among the combinations which satisfy a bound on call hand-off dropping probability is found (See e.g. Co. 7, Lines 30-50).

Regarding claim 5, Nagarajan discloses the cluster level threshold is used to reduce the probability that a cluster becomes congested under heavy load (See e.g. Co. 4, Lines 47-60).

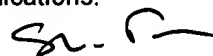
Regarding claim 6, Nagarajan discloses the cell level threshold is used to reduce the probability of localized congestion in a cell (See e.g. Co. 4, Lines 47-60).

### ***Conclusion***

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kamran Afshar whose telephone number is (703) 305-7373. The examiner can be reached on Monday-Friday.

If attempts to reach the examiner by the telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached @ (703) 305-4040. The fax number for the organization where this application or proceeding is assigned is (703) 872-9314 for all communications.

  
Kamran Afshar

  
SINH TRAN  
PRIMARY EXAMINER